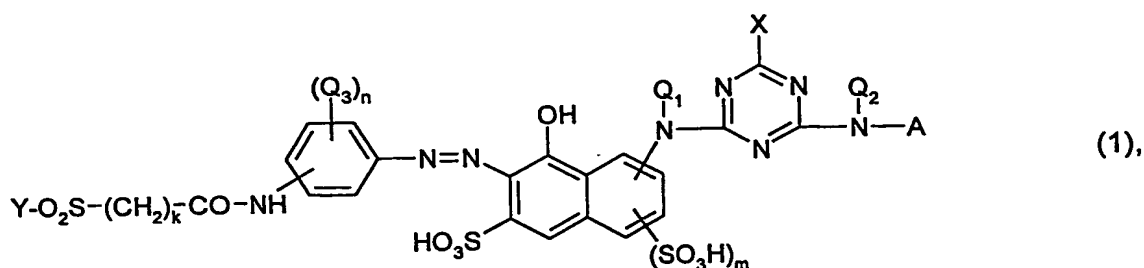


What is claimed is:

## 1. A reactive dye of formula



wherein

A is the radical of a monoazo, polyazo, metal complex azo, anthraquinone, phthalocyanine, formazan or dioxazine chromophore,

$Q_1$  and  $Q_2$  are each independently of the other hydrogen or unsubstituted or substituted  $C_1$ - $C_4$ alkyl,

$(Q_3)_n$  denotes n substituents selected from the group  $C_1$ - $C_4$ alkyl,  $C_1$ - $C_4$ alkoxy, halogen and sulfo,

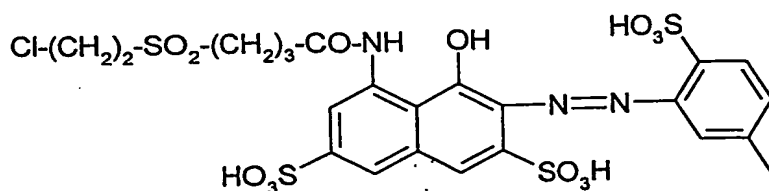
X is halogen, 3-carboxypyridin-1-yl, 3-carbamoylpyridin-1-yl, hydroxy,  $C_1$ - $C_4$ alkoxy unsubstituted or substituted in the alkyl moiety, phenoxy unsubstituted or substituted in the phenyl moiety,  $C_1$ - $C_4$ alkylthio unsubstituted or substituted in the alkyl moiety, unsubstituted or substituted amino, or an N-heterocycle which may or may not contain further hetero atoms,

Y is vinyl or a radical  $-CH_2-CH_2-U$  and U is a group removable under alkaline conditions, k is a number 2, 3, 4, 5 or 6,

m is a number 0 or 1, and

n is a number 0, 1 or 2, with the proviso that

when A denotes a monoazo chromophore it is not directly linked to the triazinyl radical through a hydroxynaphthalenesulfonic acid coupling component and does not denote a radical of formula



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2. A reactive dye according to claim 1, wherein

$Q_1$  and  $Q_2$  are hydrogen.

3. A reactive dye according to either claim 1 or claim 2, wherein

X denotes fluorine or chlorine.

4. A reactive dye according to any one of claims 1 to 3, wherein

Y is -Cl, -Br, -F, -OSO<sub>3</sub>H, -SSO<sub>3</sub>H, -OCO-CH<sub>3</sub>, -OPO<sub>3</sub>H<sub>2</sub>, -OCO-C<sub>6</sub>H<sub>5</sub>, -OSO<sub>2</sub>-C<sub>1</sub>-C<sub>4</sub>alkyl or -OSO<sub>2</sub>-N(C<sub>1</sub>-C<sub>4</sub>alkyl)<sub>2</sub>.

5. A reactive dye according to any one of claims 1 to 4, wherein

$Q_3$  is sulfo.

6. A reactive dye according to any one of claims 1 to 5, wherein

k is the number 3.

7. A reactive dye according to any one of claims 1 to 6, wherein

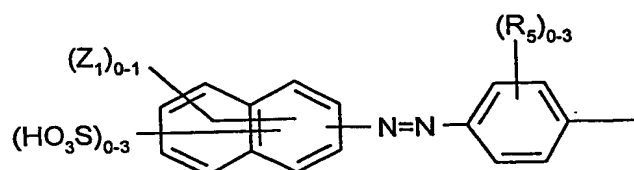
m is the number 1.

8. A reactive dye according to any one of claims 1 to 7, wherein

n is the number 1.

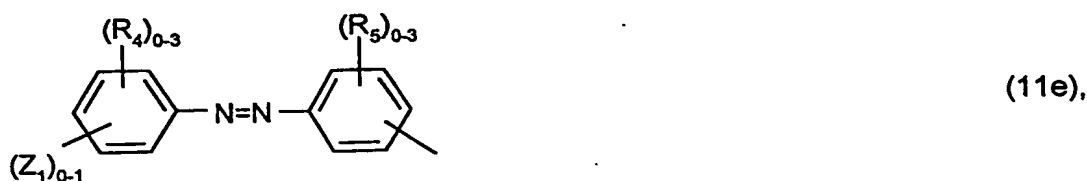
9. A reactive dye according to any one of claims 1 to 8, wherein

A is a mono- or dis-azo dye radical of formula



(11d),

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wherein  $(R_4)_{0-3}$  denotes from 0 to 3 identical or different substituents from the group  $C_1$ - $C_4$ alkyl,  $C_1$ - $C_4$ alkoxy, halogen, carboxy and sulfo,  
 $(R_5)_{0-3}$  denotes from 0 to 3 identical or different substituents from the group halogen, nitro, cyano, trifluoromethyl, sulfamoyl, carbamoyl,  $C_1$ - $C_4$ alkyl;  $C_1$ - $C_4$ alkoxy unsubstituted or substituted by hydroxy, sulfato or  $C_1$ - $C_4$ alkoxy; amino,  $C_2$ - $C_4$ alkanoylamino, ureido, hydroxy, carboxy, sulfomethyl,  $C_1$ - $C_4$ alkylsulfonfylamino and sulfo, and  
 $Z_1$  denotes a radical of formula



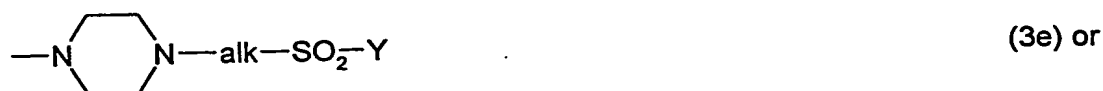
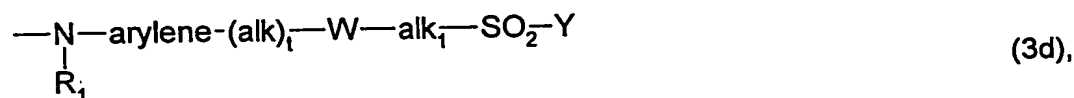
wherein

Hal is chlorine or bromine,

X<sub>1</sub> is halogen, 3-carboxypyridin-1-yl or 3-carbamoylpyridin-1-yl,

T<sub>1</sub> has independently the same definitions as X<sub>1</sub>, or is a non-fibre-reactive substituent or a fibre-reactive radical of formula





wherein

R<sub>1</sub> and R<sub>1a</sub> are each independently of the other hydrogen or C<sub>1</sub>-C<sub>4</sub>alkyl,

R<sub>2</sub> is hydrogen, C<sub>1</sub>-C<sub>4</sub>alkyl unsubstituted or substituted by hydroxy, sulfo, sulfato, carboxy or

cyano, or a radical  $\begin{array}{c} \text{R}_3 \\ | \\ \text{---alk---SO}_2\text{---Y} \end{array}$ ,

R<sub>3</sub> is hydrogen, hydroxy, sulfo, sulfato, carboxy, cyano, halogen, C<sub>1</sub>-C<sub>4</sub>alkoxycarbonyl,

C<sub>1</sub>-C<sub>4</sub>alkanoyloxy, carbamoyl or a group -SO<sub>2</sub>-Y,

alk and alk<sub>1</sub> are each independently of the other linear or branched C<sub>1</sub>-C<sub>6</sub>alkylene,

arylene is a phenylene or naphthylene radical unsubstituted or substituted by sulfo, carboxy,

C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy or halogen,

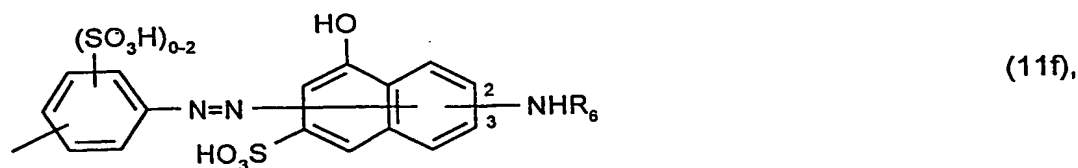
Q is a radical -O- or -NR<sub>1</sub>- wherein R<sub>1</sub> is as defined above,

W is a group -SO<sub>2</sub>-NR<sub>2</sub>-, -CONR<sub>2</sub>- or -NR<sub>2</sub>CO- wherein R<sub>2</sub> is as defined above,

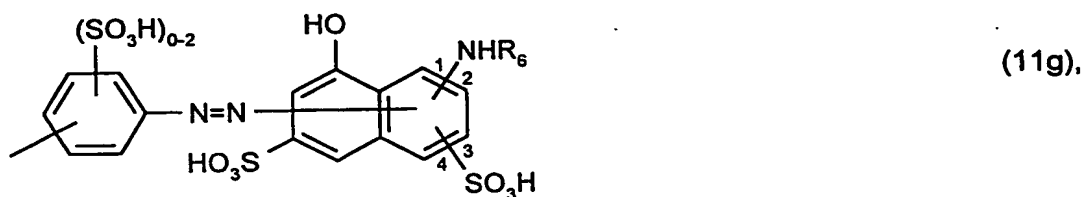
Y is vinyl or a radical -CH<sub>2</sub>-CH<sub>2</sub>-U and U is a group removable under alkaline conditions,

Y<sub>1</sub> is a group -CH(Hal)-CH<sub>2</sub>-Hal or -C(Hal)=CH<sub>2</sub>, Hal being as defined above, and

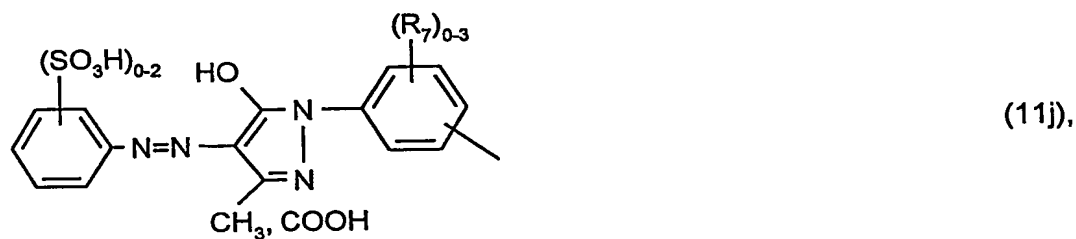
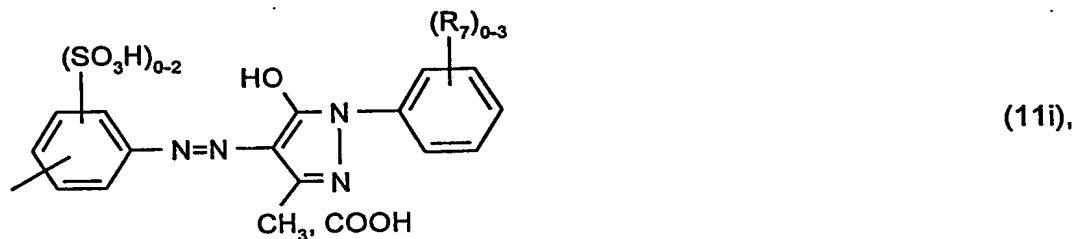
l is an integer from 1 to 6 and t is a number 0 or 1,



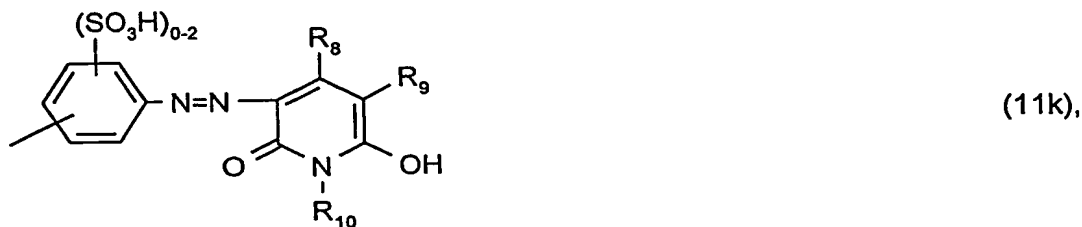
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wherein  $R_6$  is hydrogen,  $C_1$ - $C_4$ alkyl, sulfophenyl,  $C_2$ - $C_4$ alkanoyl, benzoyl or a radical of formula (2f) given above,

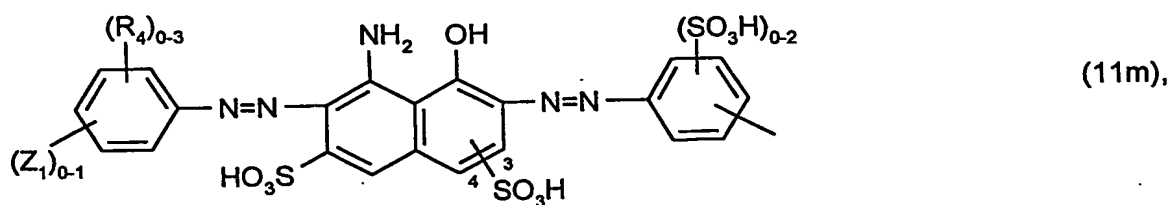
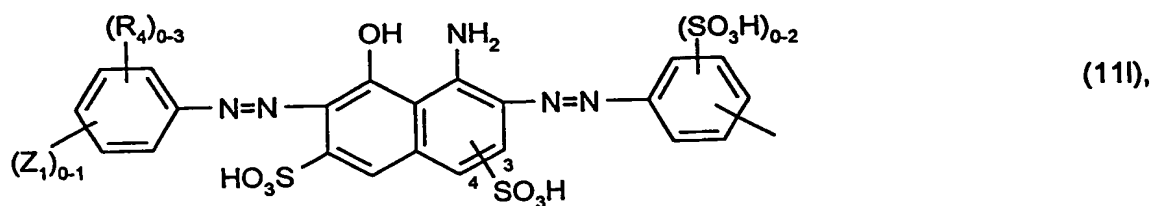


wherein  $(R_7)_{0-3}$  denotes from 0 to 3 identical or different substituents from the group  $C_1$ - $C_4$ alkyl,  $C_1$ - $C_4$ alkoxy, halogen, carboxy and sulfo,

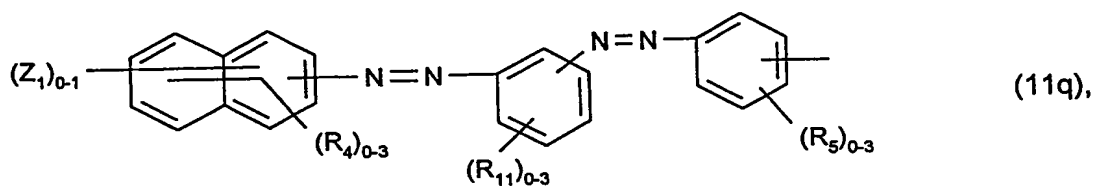
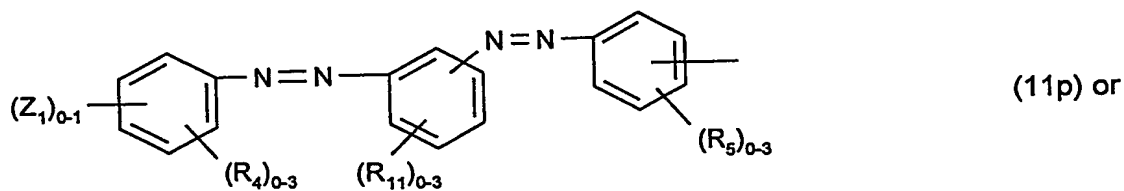


wherein  $R_8$  and  $R_{10}$  are each independently of the other hydrogen,  $C_1$ - $C_4$ alkyl or phenyl, and  $R_9$  is hydrogen, cyano, carbamoyl or sulfomethyl,

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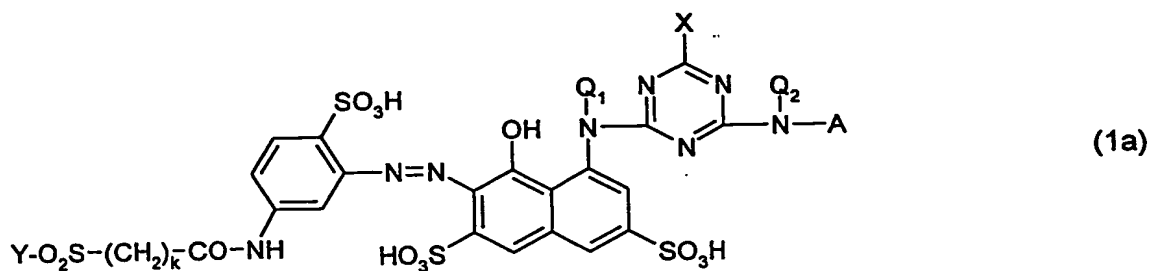
wherein  $(R_4)_{0-3}$  and  $Z_1$  each have the definitions given above,



wherein  $(R_4)_{0-3}$  and  $(R_5)_{0-3}$  each have the definitions given above, and  $(R_{11})_{0-3}$  denotes from 0 to 3 identical or different substituents from the group  $C_1$ - $C_4$ alkyl,  $C_1$ - $C_4$ alkoxy, halogen, carboxy and sulfo, and  $Z_1$  has the definitions given above.

10. A reactive dye, according to claim 9, of formula

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wherein

$Q_1$  and  $Q_2$  are hydrogen,

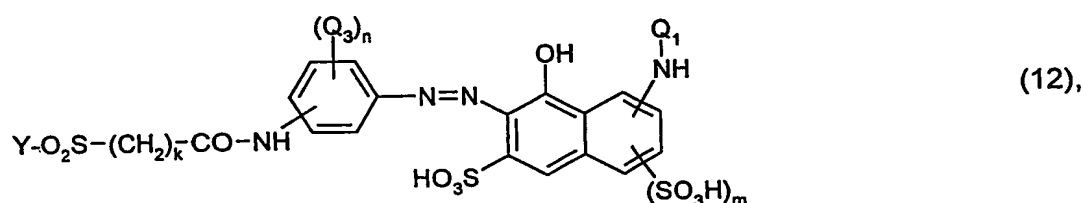
A is a mono- or dis-azo dye radical of formula (11d), (11e), (11f), (11g), (11i), (11j), (11k), (11l), (11m), (11p) or (11q) according to claim 9,

X is fluorine or chlorine,

Y is vinyl,  $\beta$ -chloroethyl or  $\beta$ -sulfatoethyl, preferably vinyl or  $\beta$ -chloroethyl, and

k is a number 2 or 3.

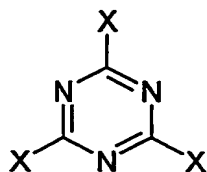
11. A process for the preparation of a reactive dye according to claim 1, wherein approximately one molar equivalent of a compound of formula



approximately one molar equivalent of a compound of formula



or suitable precursors of the compounds of formula (12) or (13), and approximately one molar equivalent of a compound of formula



(14)

are reacted with one another step-wise, in any order, or, if using precursors of compounds of formula (12) or (13), the intermediates obtained are converted into the desired dyes and, where appropriate, a further transformation reaction is subsequently carried out, A, Q<sub>1</sub>, Q<sub>2</sub>, Q<sub>3</sub>, Y, k, m and n in each case having the definitions given in claim 1 and X being halogen.

12. Use of a reactive dye according to any one of claims 1 to 10 or of a reactive dye obtained according to claim 11 in the dyeing or printing of hydroxyl-group-containing or nitrogen-containing fibre materials.

13. Use according to claim 12, wherein cellulosic fibre materials, especially cotton-containing fibre materials, are dyed or printed.

14. An aqueous ink comprising a reactive dye of formula (1) according to claim 1.

15. A method of printing textile fibre materials, paper or plastics films by the inkjet printing method, which comprises using an aqueous ink according to claim 14.